Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend Claims 1 and 8 as indicated in the following Listing of Claims.

Listing of Claims

- 1. (Currently amended) Method for preparing biological samples for analysis, comprising the following steps:
 - a) placing the biological sample on a two-dimensional support;
 - b) applying protein-precipitating or denaturing first solution L1 to the biological sample at a first temperature T1 for a predetermined first time period Z1;
 - e) leaving the protein precipitating or denaturing solution L1 or applying more protein-precipitating or denaturing solution L1, or applying a protein-precipitating or denaturing solution L2 to the biological sample at a second temperature T2 for a predetermined second time period Z2, with T2 being lower than T1 and Z2 being longer, equal to or shorter than Z1; and
 - c) performing one of the following steps:
 - (i) leaving the protein-precipitating or denaturing solution L1 with the biological sample at a second temperature T2 for a predetermined second time period Z2, with T2 being lower than T1 and Z2 being longer, equal to or shorter than Z1;
 - (ii) applying more protein-precipitating or denaturing solution L1 to the biological sample at a second temperature T2 for a

predetermined second time period Z2, with T2 being lower than T1 and Z2 being longer, equal to or shorter than Z1; or

(iii) applying a protein-precipitating or denaturing solution L2 to the biological sample at a second temperature T2 for a predetermined second time period Z2, with T2 being lower than T1 and Z2 being longer, equal to or shorter than Z1;

and

- d) drying the sample.
- 2. (Original) Method according to claim 1, wherein a drying of the sample takes place between the process steps a) and b) as process step a1) and/or between the process steps b) and c) as process step b1).
- 3. (Original) Method according to claim 2, wherein said drying of the sample takes place by means of air or vacuum drying.
- 4. (Original) Method according to claim 1, wherein after said process steps b) or b1) as process step b2), the sample is frozen.
- 5. (Original) Method according to claim 1, wherein said biological sample is a cell or tissue sample or a mixture of proteins or nucleic acids or a mixture of macromolecules comprising proteins and/or carbohydrates and/or fats and/or nucleic acids.
- 6. (Original) Method according to claim 1, wherein said solutions L1 and/or L2 are organic solvents and/or solutions with critical pH values and/or solutions with critical ion concentrations and/or salt solutions and/or solutions containing metal ions.

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7. (Original) Method according to claim 6, wherein said organic solvents are methanol

and/or ethanol and/or butanol and/or acetone.

8. (Currently amended) Method according to claim 6, wherein said salt solutions contain

dissolved salts of picric acid and/or gallotannic acid and/or tungstic acid and/or

molybdenum acid and/or trichloroacedic trichloroacetic acid and/or perchloric acid

and/or sulphosalicylic sulfosalicylic acid.

9. (Original) Method according to claim 1, wherein T1 covers a temperature range of -

10°C to 60°C.

10. (Original) Method according to claim 1, wherein after said process step d), said

biological samples are subjected to a protein and/or nucleic acid determination

method and/or a protein-chemical separation method and/or a method for the in-situ

analysis of cell structures.

11. (Withdrawn) Device for performing a method for preparing biological samples for

analysis according to claim 1, wherein said device exhibits at least one chamber to

receive the biological sample or samples applied to a support and at least one

temperature controller for controlling and adjusting the temperature inside said

chamber.

12. (Withdrawn) Device according to claim 11, wherein said chamber can be closed with

a lid.

13. (Withdrawn) Device according to claim 11, wherein said device exhibits at least one

vacuum pump to generate a vacuum inside said chamber.

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- 14. (Withdrawn) Device according to claim 12, wherein said device exhibits at least one vacuum pump to generate a vacuum inside said chamber.
- 15. (Withdrawn) Device according to claim 11, wherein there is arranged inside said chamber at least one separation wall.
- 16. (Withdrawn) Device according to claim 15, wherein said separation wall can be removed or shifted manually or automatically.
- 17. (Withdrawn) Device according to claim 11, wherein several chambers (1, 2, 3 ..., n) are arranged in series and behind each other.
- 18. (Withdrawn) Device according to claim 11, wherein several of said chambers are arranged above one another.
- 19. (Withdrawn) Device according to claim 11, wherein several of said supports are arranged on one or several sample slides.
- 20. (Withdrawn) Device according to claim 11, wherein the individual process steps are executed and controlled manually, semi-automatically or automatically by said device.